

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

MULTIVALENT COMPOUNDS FOR CROSSLINKING RECEPTORS AND USES THEREOF

the specification of which is attached hereto unless the following is checked:

[X] was filed on April 11, 1997, as United States Application No. 08/837,305 or PCT  
(Include Series Code)  
International Application No. \_\_\_\_\_, bearing attorney docket No.  
\_\_\_\_\_, and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or section 365(a) of any PCT International application designating at least one country other than the United States. listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign PCT International Application(s) and any priority claims under 35 U.S.C. §§119 and 365(a), (b):

(Number)	(Country-if PCT, so indicate)	(DD/MM/YY Filed)	Priority Claimed	
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
(Number)	(Country)	(DD/MM/YY Filed)	<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
(Number)	(Country)	(DD/MM/YY Filed)	<input type="checkbox"/> YES	<input type="checkbox"/> NO

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

(Application Number)	(filing date)
(Application Number)	(filing date)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56

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which became available between the filing date of the prior application and the national or PCT International filing date of this application:

<u>USSN 08/671,756</u>	<u>June 28, 1996</u>	<u>Now abandoned</u>
(Application No.)	(filing date)	(status-patented, pending, abandoned)
_____	_____	_____
(Application No.)	(filing date)	(status-patented, pending, abandoned)

PCT International Applications designating the United States:

<u>(PCT Appl. No.)</u>	<u>(U.S. Ser. No.)</u>	<u>(PCT filing date)</u>	<u>(status-patented, pending, abandoned)</u>
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I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Address all telephone calls to Elizabeth R. Plumer at telephone no. (617) 720-3500. Address all correspondence to

David Wolf	17,528	Peter C. Lando	34,654	Paul D. Sorkin	39,039
George L. Greenfield	17,756	Gary S. Engelson	35,128	Douglas C. Doskocil	39,660
Stanley Sacks	19,900	Peter J. Gordon	35,164	John R. Van Amsterdam	40,212
Edward F. Perlman	28,105	Randy J. Pritzker	35,986	Scott A. Ouellette	38,573
Lawrence M. Green	29,384	Richard F. Guinta	36,149	Matthew B. Lowrie	38,228
Steven J. Henry	27,900	Douglas R. Wolf	36,971	Jodi-Ann McLane	36,215
Therese A. Hendricks	30,389	Elizabeth R. Plumer	36,637	Michael G. Verga	39,410
Edward R. Gates	31,616	Timothy J. Oyer	36,628	Shirly N. Wodeslavksy	40,233
William R. McClellan	29,409	Kristofer E. Elbing	34,590	Robert E. Rigby, Jr.	36,904
Ronald J. Kransdorf	20,004	John N. Anastasi	37,765	Sean P. Daley	P-40,978
M. Lawrence Oliverio	30,915	Brett N. Dorny	35,860	Robert A. Skrivanek, Jr.	41,316
James J. Foster	30,052	Helen C. Kindregan	39,248	Robert M. Abrahamsen	P-40,886
Charles E. Pfund	17,030	James M. Hanifin, Jr.	39,213	Lesley A. Hamlin	P-41,054
Anthony J. Mirabito	28,161	David E. Huang	39,229	Lindsay G. McGuinness	38,549
Jason M. Honeyman	31,624	Thomas M. Sullivan	39,392	Mike W. Crosby	P-40,970
James H. Morris	34,681	Christopher S. Schultz	37,929		

Elizabeth R. Plumer  
c/o Wolf, Greenfield & Sacks, P.C.,  
Federal Reserve Plaza  
600 Atlantic Avenue  
Boston, MA 02210-2211

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are

punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

William W. Bachovchin  
Inventor's signature  
Full name of sole or first inventor William W. Bachovchin  
Citizenship United States of America  
Residence 71 Warwick Road, Melrose, MA 02176

Nov. 5, 1997  
Date

Post Office Address 71 Warwick Road, Melrose, MA 02176

Janet L. Mattozzi 11-5-97  
JANET L. MATTOZZI, Notary Public  
My Commission Expires Sept. 18, 2003

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ATTORNEY'S DOCKET NO. I0254/7004 (ERP)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: William Bachovchin  
Serial No: 08/837,305  
Filed: April 11, 1997  
For: MULTIVALENT COMPOUNDS FOR CROSSLINKING RECEPTORS  
AND USES THEREOF

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

Sir:

REVOCATION BY ASSIGNEE AND NEW POWER OF ATTORNEY

The undersigned, TRUSTEES OF TUFTS COLLEGE, owner of the entire interest in the above-identified patent application serial no. 08/837,305, filed April 11, 1997 hereby revoke any and all former powers of attorney and appoints:

David Wolf	17,528	Peter C. Lando	34,654	Paul D. Sorkin	39,039
George L. Greenfield	17,756	Gary S. Engelson	35,128	Douglas C. Daskocil	39,660
Stanley Sacks	19,900	Peter J. Gordon	35,164	John R. Van Amsterdam	40,212
Edward F. Perlman	28,105	Randy J. Pritzker	35,986	Scott A. Ouellette	38,573
Lawrence M. Green	29,384	Richard F. Guinta	36,149	Matthew B. Lowrie	38,228
Steven J. Henry	27,900	Douglas R. Wolf	36,971	Jodi-Ann McLane	36,215
Therese A. Hendricks	30,389	Elizabeth R. Plumer	36,637	Michael G. Verga	39,410
Edward R. Gates	31,616	Timothy J. Oyer	36,628	Shirly N. Wodeslavsky	40,233
William R. McClellan	29,409	Kristofer E. Elbing	34,590	Robert E. Rigby, Jr.	36,904
Ronald J. Kransdorf	20,004	John N. Anastasi	37,765	Sean P. Daley	P-40,978
M. Lawrence Oliverio	30,915	Brett N. Dorny	35,860	Robert A. Skrivaneck, Jr.	P-41,316
James J. Foster	30,052	Helen C. Kindregan	39,248	Robert M. Abrahamsen	P-40,886
Charles E. Pfund	17,030	James M. Hanifin, Jr.	39,213	Lesley A. Hamlin	P-41,054
Anthony J. Mirabito	28,161	David E. Huang	39,229	Lindsay G. McGuinness	38,549
Jason M. Honeyman	31,624	Thomas M. Sullivan	39,392	Mike W. Crosby	P-40,970
James H. Morris	34,681	Christopher S. Schultz	37,929		

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of Wolf, Greenfield & Sacks, P.C., Federal Reserve Plaza, 600 Atlantic Avenue, Boston, Massachusetts 02210-2211, as applicant's attorneys with full power of substitution and revocation to take any and all action necessary with regard to the above-identified application.

Address all telephone calls to Elizabeth R. Plumer, at telephone no. (617) 720-3500. Please forward all correspondence to:

Elizabeth R. Plumer  
Registration No. 36,637  
Wolf, Greenfield & Sacks, P.C.  
Federal Reserve Plaza  
600 Atlantic Avenue  
Boston, MA 02210-2211

Please charge any fee or any fee deficiency occasioned by this document to Deposit Account No. 23/2825.

Respectfully submitted,

Date:

09/02/97

By:

Joseph J. Byrne  
Signature

\_\_\_\_\_  
Joseph J. Byrne, Ph.D.

\_\_\_\_\_  
Associate Provost for Research

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: William Bachovchin  
Serial No: 08/837,305  
Filed: April 11, 1997  
For: MULTIVALENT COMPOUNDS FOR CROSSLINKING RECEPTORS  
AND USES THEREOF

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

JCS42 U.S. PTO  
09/289321

CERTIFICATE UNDER 37 C.F.R., §3.73(b)

TRUSTEES OF TUFTS COLLEGE, a Massachusetts corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor of the patent application identified above. The above-identified patent application is a continuation of U.S. Serial No. 08/671,756. The assignment for U.S. Serial No. 08/671,756, filed June 28, 1996 was filed with a Certificate of Mailing under 37 C.F.R. §1.8(a) at the U.S. Patent and Trademark Office on October 29, 1996. A copy of the Assignment and appropriate recordation cover sheet is attached hereto.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is identified below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

TRUSTEES OF TUFTS COLLEGE,

By: 

Joseph J. Byrne, Ph.D.

Date: 09/02/97

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REGISTRATION FORM COVER SHEET  
**PATENTS ONLY**

Commissioner of Patents and Trademarks: Please record the attached original document.

1. Name of conveying party(ies):  
**WILLIAM W. BACHOVCHIN**

Additional name(s) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):  
**TRUSTEES OF TUFTS COLLEGE  
BALLOU HALL  
MEDFORD, MA 02155**

3. Nature of conveyance:

- ☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other:

Additional names/addresses attached? ☐ Yes ☒ No

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JC542 U.S. PTO  
09/289321  
04/09/99

Execution Date: **OCT/23/96**

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s):  
**08/671,756**

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name/address of party to whom correspondence concerning document should be mailed:

**Paul T. Clark, Reg. No. 30,162  
Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804**

6. Total number of applications/patents involved: **1**

7. Total fee (37 CFR 3.41): **\$40**

- ☒ Enclosed  
☐ Authorized to charge deposit account

8. Deposit account number: **06-1050**

If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

**DO NOT USE THIS SPACE**

9. Statement and signature: *To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.*

**Paul T. Clark, Reg. No. 30,162**

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **2**

Date of Deposit

**10-29-96**

I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

**MS**

ASSIGNMENT

For valuable consideration, I, WILLIAM W. BACHOVCHIN, of Melrose, MA  
hereby assign to TRUSTEES OF TUFTS COLLEGE, a MASSACHUSETTS corporation having a  
place of business at BALLOU HALL, MEDFORD, MA 02155, and its successors and assigns  
(collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world  
in the inventions and improvements which are subject of an application for United States Patent signed  
by me, entitled MULTIVALENT COMPOUNDS FOR CROSSLINKING RECEPTORS AND USES  
THEREOF, filed JUN/28/96, and assigned U.S. Serial Number 08/671,756, and I authorize and request  
the attorneys appointed in said application to hereafter complete this assignment by inserting above  
the filing date and serial number of said application when known; this assignment including said  
application, any and all United States and foreign patents, utility models, and design registrations  
granted for any of said inventions or improvements, and the right to claim priority based on the filing  
date of said application under the International Convention for the Protection of Industrial Property,  
the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like  
purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for  
patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for  
said inventions and improvements; and I agree for me and my respective heirs, legal representatives  
and assigns, without further compensation, to perform such lawful acts and to sign such further  
applications, assignments, Preliminary Statements and other lawful documents as the Assignee may  
reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Boston, MA,  
this 23 day of October, 1996

William W. Bachovchin  
WILLIAM W. BACHOVCHIN

L.S.

STATE OF MASSACHUSETTS:

COUNTY OF Suffolk:  
:SS.

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Before me this 23rd day of October, 1996, personally appeared

WILLIAM W. BACHOVCHIN known to me to be the person whose name is subscribed to the  
foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed  
for the purposes therein contained.

Margaret Newell  
Notary Public  
My Commission Expires: 1/11/2002

[Notary's Seal Here]



I0254/7004 (ERP)

## ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned William W. Bachovchin, 71 Warwick Road, Melrose, MA 02176, hereby

Sell, assign and transfer to TRUSTEES OF TUFTS COLLEGE, a Massachusetts corporation having a place of business at Ballou Hall, Medford, MA 02155, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent having Serial Number 08/837,305, Filed April 11, 1997 and entitled MULTIVALENT COMPOUNDS FOR CROSSLINKING RECEPTORS AND USES THEREOF, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

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Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

Dated:

Apr 5, 1997

William W. Bachovchin  
WILLIAM W. BACHOVCHIN

STATE OF Massachusetts:

COUNTY OF Suffolk:

Subscribed and sworn to before me this 5 day of April, 1997.

SEAL

Janet L. Kruttschnitt  
Notary Public

My Commission Expires: 9-18-2003

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